

Please type a plus sign (+) inside this box



|   |                        |   |
|---|------------------------|---|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small> | Attorney Docket No.    | 51876P379   |
|   | First Inventor         | Jae-Hyun Seo, et al.  |
|   | Title                  | Digital Broadcasting Service Receiver For Improving Reception Ability |
|   | Express Mail Label No. | EV339917701US   |

|   |  |
|---|--|
| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents</small> | <b>ADDRESS TO:</b><br>Mail Stop Patent Application<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, VA 22313-1450 |
|---|--|

|   |   |
|---|---|
| <p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br/><small>(Submit an original and a duplicate for fee processing)</small></p> <p>2. <input checked="" type="checkbox"/> Applicant claims small entity status.<br/>See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification <span style="float: right;">[Total Pages <u>15</u>]</span><br/><small>(preferred arrangement set forth below)</small></p> <ul style="list-style-type: none"><li>- Descriptive title of the Invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="float: right;">[Total Sheets <u>5</u>]</span></p> <p>5. Oath or Declaration (signed) <span style="float: right;">[Total Pages <u>5</u>]</span></p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d))<br/><small>(for continuation/divisional with Box 18 completed)</small></p> <p>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/><small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p> | <p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission<br/><small>(if applicable, all of the following are necessary)</small></p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p> |
| <p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>10. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input type="checkbox"/> Power of Attorney<br/><small>(when there is an assignee)</small></p> <p>11. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment <input type="checkbox"/> Application Amended to Reflect Claim of Priority</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br/><small>(Should be specifically itemized)</small></p> <p>15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s)<br/><small>(if foreign priority is claimed)</small></p> <p>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).<br/>Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: <u>Request for Priority: Formal Drawings Transmittal</u></p>  |   |

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_

Prior application Information: Examiner \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

|   |  |                |  |   |  |
|---|--|----------------|--|---|--|
| <b>18. CORRESPONDENCE ADDRESS</b>                                     |  |                |  |   |  |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label |  | 08791          |  | <input type="checkbox"/> Correspondence address below |  |
| Name  |  |                |  |   |  |
| Address   |  |                |  |   |  |
| City  |  | State          |  | Zip Code  |  |
| Country   |  | Telephone      |  | Fax   |  |
|   |  | (310) 207-3800 |  | (310) 820-5988  |  |

|                   |               |                                   |         |
|-------------------|---------------|-----------------------------------|---------|
| Name (Print/Type) | Eric S. Hyman | Registration No. (Attorney/Agent) | 30,139  |
| Signature         |               | Date                              | 7/31/03 |

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$)

415.00

## Complete if Known

Application Number  
Filing Date  
First Named Inventor Jae-Hyun Seo  
Examiner Name  
Group/Art Unit  
Attorney Docket No. 51876P379

## METHOD OF PAYMENT (check one)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None  
☐ Deposit Account

Deposit Account Number

02-2666

Deposit Account Name

Blakely, Sokoloff, Taylor &amp; Zafman LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments  
☒ Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

## 1. BASIC FILING FEE

| Large Entity |          | Small Entity |          | Fee Description        | Fee Paid |
|--------------|----------|--------------|----------|------------------------|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |                        |          |
| 1001         | 750      | 2001         | 375      | Utility filing fee     | 375.00   |
| 1002         | 330      | 2002         | 165      | Design filing fee      |          |
| 1003         | 520      | 2003         | 260      | Plant filing fee       |          |
| 1004         | 750      | 2004         | 375      | Reissue filing fee     |          |
| 1005         | 160      | 2005         | 80       | Provisional filing fee |          |
| SUBTOTAL (1) |          |              |          |                        | (\$)     |
|              |          |              |          |                        | 375.00   |

## 2. EXTRA CLAIM FEES

| Total Claims       | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 8                  | 20*          | 0              | 9.00     |
| Independent Claims | 2            | 3*             | 0        |
| Multiple Dependent |              |                |          |

| Large Entity |          | Small Entity |          | Fee Description   | Fee Paid |
|--------------|----------|--------------|----------|---|----------|
| Fee Code     | Fee (\$) | Fee Code     | Fee (\$) |   |          |
| 1202         | 18       | 2202         | 9        | Claims in excess of 20                                    |          |
| 1201         | 84       | 2201         | 42       | Independent claims in excess of 3                         |          |
| 1203         | 280      | 2203         | 140      | Multiple Dependent claim, if not paid                     |          |
| 1204         | 84       | 2204         | 42       | **Reissue independent claims over original patent         |          |
| 1205         | 18       | 2205         | 9        | **Reissue claims in excess of 20 and over original patent |          |
| SUBTOTAL (2) |          |              |          |   | (\$)     |
|              |          |              |          |   | 0.00     |

\*\*or number previously paid, if greater, For Reissues, see below

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

| Large Entity        |          | Small Entity |          | Fee Description  | Fee Paid |
|---------------------|----------|--------------|----------|--|----------|
| Fee Code            | Fee (\$) | Fee Code     | Fee (\$) |  |          |
| 1051                | 130      | 2051         | 65       | Surcharge - late filing fee or oath  |          |
| 1052                | 50       | 2052         | 25       | Surcharge - late provisional filing fee or cover sheet.                    |          |
| 2053                | 130      | 2053         | 130      | Non-English specification  |          |
| 1812                | 2,520    | 1812         | 2,520    | For filing a request for <i>ex parte</i> reexamination                     |          |
| 1804                | 920 *    | 1804         | 920 *    | Requesting publication of SIR prior to Examiner action                     |          |
| 1805                | 1,840 *  | 1805         | 1,840 *  | Requesting publication of SIR after Examiner action                        |          |
| 1251                | 110      | 2251         | 55       | Extension for reply within first month                                     |          |
| 1252                | 410      | 2252         | 205      | Extension for reply within second month                                    |          |
| 1253                | 930      | 2253         | 465      | Extension for reply within third month                                     |          |
| 1254                | 1,450    | 2254         | 725      | Extension for reply within fourth month                                    |          |
| 1255                | 1,970    | 2255         | 985      | Extension for reply within fifth month                                     |          |
| 1404                | 320      | 2401         | 160      | Notice of Appeal   |          |
| 1402                | 320      | 2402         | 160      | Filing a brief in support of an appeal                                     |          |
| 1403                | 280      | 2403         | 140      | Request for oral hearing   |          |
| 1451                | 1,510    | 2451         | 1,510    | Petition to institute a public use proceeding                              |          |
| 1452                | 110      | 2452         | 55       | Petition to revive - unavoidable   |          |
| 1453                | 1,300    | 2453         | 650      | Petition to revive - unintentional   |          |
| 1501                | 1,300    | 2501         | 650      | Utility issue fee (or reissue)   |          |
| 1502                | 470      | 2502         | 235      | Design issue fee   |          |
| 1503                | 630      | 2503         | 315      | Plant issue fee  |          |
| 1460                | 130      | 2460         | 130      | Petitions to the Commissioner  |          |
| 1807                | 50       | 1807         | 50       | Processing fee under 37 CFR 1.17(q)  |          |
| 1806                | 180      | 1806         | 180      | Submission of Information Disclosure Stmt                                  |          |
| 8021                | 40       | 8021         | 40       | Recording each patent assignment per property (times number of properties) | 40.00    |
| 1809                | 750      | 1809         | 375      | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 1810                | 750      | 2810         | 375      | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801                | 750      | 2801         | 375      | Request for Continued Examination (RCE)                                    |          |
| 1802                | 900      | 1802         | 900      | Request for expedited examination of a design application                  |          |
| Other fee (specify) |          |              |          |  |          |

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

40.00

## SUBMITTED BY

## Complete (if applicable)

Name (Print/Type)

Eric S. Hyman

Registration No.  
(Attorney/Agent)

30,139

Telephone

(310) 207-3800

Signature

Date

7/3/03

Based on PTO/SB/17 (01-03) as modified by Blakely, Sokoloff, Taylor & Zafman (w/1) 05/02/2003.  
SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

JAE-HYUN SEO, ET AL.

Application No.:

Filed:

For: **Digital Broadcasting Service Receiver For  
Improving Reception Ability By Switched  
Beam-Forming**

Art Group:

Examiner:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF FORMAL DRAWINGS**

Sir:

Enclosed herewith for filing in the above-identified U.S. Patent Application are the formal drawings, 5 sheets including 8 Figures. Please charge any additional fees or credit any overpayment to Deposit Account No. 02-2666. A duplicate copy of the Fee Transmittal is enclosed for this purpose.

Respectfully submitted,

Blakely, Sokoloff, Taylor & Zafman LLP

Dated: 7/31/03

  
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